

CLAIMS

What is claimed is:

1. A computer system, comprising:

a component housing comprising:

5 a first section; and

a second section rotatably coupled to the first section; and

a display rotatably coupled to the component housing.

2. The computer system of claim 1, wherein the component housing

10 comprises a flat panel housing.

3. The computer system of claim 1, wherein the component housing

comprises computing circuitry.

15 4. The computer system of claim 3, wherein the computing circuitry

comprises a processor.

5. The computer system of claim 3, wherein the computing circuitry

comprises a memory assembly.

20 6. The computer system of claim 3, wherein the computing circuitry

comprises a mobile power assembly.

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7. The computer system of claim 1, wherein the component housing comprises an input device.

5 8. The computer system of claim 7, wherein the input device comprises a removable wireless input device.

9. The computer system of claim 7, wherein the input device comprises a separable pointing device.

10 10. The computer system of claim 7, wherein the input device comprises a separable keyboard.

11. The computer system of claim 1, wherein the component housing comprises a support structure for supporting an angular orientation of the second section relative to the first section.

15 12. The computer system of claim 11, wherein the support structure comprises a horizontal mount structure.

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13. The computer system of claim 1, wherein the component housing comprises an angular lock assembly for securing the component housing at a desired relative angle between the first section and the second section.

5 14. The computer system of claim 1, wherein the display comprises a panel display assembly.

10 15. The computer system of claim 1, comprising a connector assembly rotatably coupling the display and the component housing.

15 16. The computer system of claim 15, wherein the connector assembly

comprises a connector structure having first and second rotatable assemblies disposed on opposite ends of the connector, the first rotatable assembly being rotatably coupled to the display and the second rotatable assembly being rotatably coupled to the component

housing.

20 17. The computer system of claim 15, wherein the connector assembly comprises a display mount assembly configured for removably coupling the display to the component housing.

18. The computer system of claim 17, wherein the connector assembly comprises an electrical coupling assembly configured for removably coupling the display to the component housing during operation of the computer system.

19. The computer system of claim 1, comprising an integral handle assembly coupled to the component housing.

20. A space saving system for a computing device, comprising:
a display; and

10 a housing rotatably coupled to the display, wherein at least a portion of the housing is rotatable to an upright orientation.

21. The space saving system of claim 20, wherein the display comprises a panel display assembly.

15 22. The space saving system of claim 20, wherein the housing comprises a panel-shaped component housing.

23. The space saving system of claim 20, comprising computing circuitry
20 disposed in the housing.

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24. The space saving system of claim 23, wherein the computing circuitry comprises a power supply configured for mobile computing.

5 25. The space saving system of claim 23, wherein the computing circuitry comprises a wireless communication system.

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26. The space saving system of claim 20, comprising an input device removably coupled to the housing.

10 27. The space saving system of claim 20, comprising a coupling assembly having a first end rotatably coupled to the housing and a second end rotatably coupled to the display at an offset distance from the housing.

15 28. The space saving system of claim 20, comprising a display coupling assembly disposed between the display and the housing, wherein the display coupling assembly is configured for removably coupling the display to the housing.

20 29. The space saving system of claim 20, comprising a support structure for supporting at least the portion of the housing in the upright orientation.

30. The space saving system of claim 20, wherein the housing comprises rotatably coupled adjacent sections configured for a plurality of angular orientations.

31. The space saving system of claim 30, wherein the rotatably coupled adjacent sections comprise a base housing section and a section rotatable to a desired orientation configured for decreasing space consumption of the housing.

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32. A computer structure, comprising:
a body comprising a plurality of rotatably coupled sections configured for geometrical adaptation to a desired environment, wherein the plurality of rotatably coupled sections are configured to support computing components including a display.

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33. The computer structure of claim 32, wherein the rotatably coupled sections comprise a plurality of panel housing sections.

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34. The computer structure of claim 32, wherein the rotatably coupled sections comprise a housing assembly having a base section configured to support the body.

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35. The computer structure of claim 32, wherein the rotatably coupled sections are adapted for orientation in a plurality of geometrical configurations.

36. The computer structure of claim 35, wherein the plurality of geometrical configurations comprises a folded configuration having a substantially flat arrangement of the rotatably coupled sections.

37. The computer structure of claim 35, wherein the plurality of geometrical configurations comprises a zigzagging configuration of at least a portion of the plurality of rotatably coupled sections.

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38. The computer structure of claim 37, wherein the plurality of rotatably coupled sections comprise a housing assembly and a display panel assembly, the plurality of geometrical configurations comprising a working configuration having the display panel assembly positioned at a desired viewing orientation for the display and having at least a portion of the housing assembly positioned at a desired orientation for mounting on a surface.

DETAILED DESCRIPTION

39. The computer structure of claim 35, wherein the rotatably coupled sections comprise a first housing panel, a second housing panel rotatably coupled to the first housing panel, and a display panel rotatably coupled to the second housing panel.

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40. The computer structure of claim 39, comprising a coupling assembly having a first end rotatably coupled to the second housing panel and a second end rotatably coupled to the display panel at an offset distance from the second housing panel.

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41. The computer structure of claim 39, comprising a display coupling assembly disposed between the display panel and the second housing panel, wherein the

display coupling assembly is configured for removably coupling the display panel to the second housing panel.

42. The computer structure of claim 32, comprising at least a portion of the 5 computing components integrally coupled within the plurality of rotatably coupled sections, wherein the computing components comprise the display and a processor, and the display includes a panel display screen.

43. A method of forming a computing device having versatile configurations, 10 comprising:

rotatably coupling a plurality of panels configured for computing components; rotatably coupling a display panel support structure to one of the plurality of panels; and

15 supporting a plurality of geometrical orientations of the plurality of panels and the display panel.

44. The method of claim 43, wherein rotatably coupling the plurality of panels comprises rotatably coupling a first housing section to a second housing section and rotatably coupling a display connector panel to the second housing section.

45. The method of claim 43, wherein supporting the plurality of geometrical orientations comprises providing a locking assembly to lock the plurality of panels and the display panel in a desired orientation.

5 46. The method of claim 43, wherein supporting the plurality of geometrical orientations comprises supporting a zigzagging configuration of at least a portion of the plurality of panels and the display panel.

10 47. The method of claim 43, wherein supporting the plurality of geometrical orientations comprises supporting a folded configuration having a substantially flat arrangement of the plurality of panels adjacent the display panel.

15 48. The method of claim 43, comprising coupling a carrying handle to the computing device.

49. The method of claim 43, comprising coupling a plurality of the computing components to the plurality of panels, the computing components comprising a wireless communication assembly.

20 50. The method of claim 43, comprising removably coupling an input device to at least one of the plurality of panels.

COMPUTING DEVICE

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51. A method of merging computing worlds, comprising:
changeably adapting a multi-configurable computing device to a desired
computing world, wherein changeably adapting comprises geometrically orienting
multiple sections of the multi-configurable computing device via a plurality of
independently pivotable joints disposed between the multiple sections.

52. The method of claim 51, wherein changeably adapting comprises
geometrically adapting the multi-configurable computing device for available space in the
desired computing world.

10 53. The method of claim 51, wherein geometrically orienting multiple sections
comprises rotating first and second component housing sections about a first joint of the
plurality of independently pivotable joints.

15 54. The method of claim 53, wherein geometrically orienting multiple sections
comprises rotating a display panel relative to the first and second component housing
sections.

20 55. The method of claim 54, wherein rotating the display panel comprises
rotating the display panel about a second joint of the plurality of independently pivotable
joints, the second joint being rotatably disposed between the display panel and the second
component housing.

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56. The method of claim 54, wherein rotating the display panel comprises
rotating the display panel about a display connector arm rotatably coupled to the display
panel and the second component housing via second and third joints of the plurality of
independently pivotable joints.

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57. The method of claim 51, wherein changeably adapting comprises
facilitating wireless communication between the multi-configurable computing device
and at least one separable computing component.

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58. The method of claim 51, comprising merging portable and desktop
computing worlds.

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59. The method of claim 52, comprising forming a unique class of versatile
computing devices tailored to replace portable and desktop computer systems.